

I CLAIM:

1. A method of making amide and super plastics including the steps of:
 - (a) dissolving hydrocarbon feed materials in a molten metal at temperatures above
5 400°C and pressures above 400 kg/cm²;
 - (b) increasing the temperature to above 800°C and the pressure to above 800
kg/cm² such that said feed material polymerizes together as an amide plastic;
 - (c) separating said amide plastic from said molten metal; and
 - (d) cooling said amide plastic and extracting amide plastic.
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2. The method claimed in claim 1 wherein the molten metal is tin.
3. The method claimed in claim 1 wherein the hydrocarbon feed materials are selected
from the group comprised of oil, natural gas, sulfides of; sodium, potassium,
15 magnesium, and zinc, salts of; bromine and chlorine, coal oils, propane, nitrogen,
oxygen, urea, and hydrocarbon containing refuse.
4. The method claimed in claim 1 including a further step of preheating said feed
materials prior to dissolving said feed materials in a molten metal.
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5. The method claimed in claim 1 wherein step (b) also includes increasing the
temperature to above 800°C and the pressure to above 800 kg/cm² such that said feed
material polymerizes together as a super plastic;

6. A reactor for making amide and super plastics comprising:
- (a) a low temperature and pressure reactor vessel for receiving feed materials and dissolving said feed materials in molten metal;
 - (b) a high temperature and pressure reactor vessel for polymerizing said feed materials into amide plastics,
 - (c) a separator vessel for separating said molten metal from said amide plastic,
 - (d) means for introducing and communicating feed materials through the various reactor vessels.
7. The reactor claimed in claim 6 further including a pre heater for pre heating feed material prior to introducing said feed material into said low temperature reactor vessel.
8. The reactor claimed in claim 6 wherein said high temperature reactor housed within said low temperature reactor in order to minimize heat losses.
9. The reactor claimed in claim 7 wherein said pre heater being a feed pre heater pipe housed within said separator vessel.
10. The reactor claimed in claim 6 wherein said separator vessel including separate output valves for releasing amide plastic and super plastic respectively.